| Rejected   | Index of Claims                     |                                       |      |     |      |  |  |   |   |            |                                  |  | Application No.  10/766,154  Examiner  Daniel J. Jenkins |      |  |   |              |  |   |     |  |     | Applicant(s)  XU ET AL.  Art Unit  1742 |  |  |  |  |  |  |
|--|-------------------------------------|---------------------------------------|------|-----|------|--|--|---|---|------------|----------------------------------|--|--|------|--|---|--------------|--|---|-----|--|-----|---|--|--|--|--|--|--|
| Claim  | √                                   | √ Rejected _ (Through numer Cancelled |      |     |      |  |  |   |   |            |                                  |  | eral   | )    |  | N | Non-Elected  |  |   |     | Α  |     |   |  |  |  |  |  |  |
| The content of the  | =                                   | =                                     | Allo | we  | d    |  |  | ÷ |   | Restricted |                                  |  |  |      |  | 1 | Interference |  |   | nce |  | 0   |   |  |  |  |  |  |  |
| The color of the | Claim                               |                                       |      | - 0 | Date |  |  |   | 7 | Claim      |                                  |  |  | Date |  |   |              |  | 1 |     | nim  | ι — | Date                                    |  |  |  |  |  |  |
| 7       8       107       108       109       109       109       109       109       110       110       111 </th <th>1 l<br/>2 3<br/>4 5</th> <th>- 1</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>51<br/>52<br/>53<br/>54<br/>55</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Ouginal<br/>101<br/>102<br/>103<br/>104<br/>105</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>  | 1 l<br>2 3<br>4 5                   | - 1                                   |      |     |      |  |  |   |   |            | 51<br>52<br>53<br>54<br>55       |  |  |      |  |   |              |  |   |     | Ouginal<br>101<br>102<br>103<br>104<br>105 |     |   |  |  |  |  |  |  |
| 14       15       16       17       18       19       20       21       22       23       24       25       114       115       116       117       118       119       110       111       111       118       119       120       121       122       123       124       125  | 7<br>8<br>9<br>10<br>11<br>12<br>13 |                                       |      |     |      |  |  |   |   |            | 57<br>58<br>59<br>60<br>61<br>62 |  |  |      |  |   |              |  |   |     | 107<br>108<br>109<br>110<br>111<br>112     |     |   |  |  |  |  |  |  |
| 21     71       22     72       23     73       24     74       25     75  | 15<br>16<br>17<br>18<br>19          |                                       |      |     |      |  |  |   |   |            | 64<br>65<br>66<br>67<br>68<br>69 |  |  |      |  |   |              |  |   |     | 114<br>115<br>116<br>117<br>118<br>119     |     |   |  |  |  |  |  |  |
|  | 21<br>22<br>23<br>24                |                                       |      |     |      |  |  |   |   |            | 71<br>72<br>73<br>74             |  |  |      |  |   |              |  |   |     | 121<br>122<br>123<br>124                   |     |   |  |  |  |  |  |  |

|   | 6        | /        | ŀ             |          |            |               | Ì  | 1            |          |     | i .      | Ö  |               |          |               |          | ĺ        |                 |           | }        |            |     | 這               | Orig |            |           |            |          |          |              |          |          |          | l |
|---|----------|----------|---------------|----------|------------|---------------|--|--------------|----------|-----|----------|----|---------------|----------|---------------|----------|----------|-----------------|-----------|----------|------------|-----|-----------------|------|------------|-----------|------------|----------|----------|--------------|----------|----------|----------|---|
| - | ů        | /        | -             | ╁        | ╁          | +             | +  | +            | ╁        | -   |          | L. | $\vdash$      |          | <u> </u>      | <u> </u> | ļ        | _               | <u> </u>  | 1        | L.         | 1   |                 | L    |            |           |            |          | _        | $oxed{oxed}$ | L        |          | L        |   |
| - | 4        | -        | ├             | ╁        | ┼          | ┿             | +  | +-           | ┼        | ┨   | <u> </u> | 51 | $\vdash$      |          | ┞—            | -        | L        | ــــ            | _         | ↓_       | <b> </b> _ |     | Ĺ               | 101  | Ш          |           | L          | _        | L        | <u> </u>     | L        | L        | L        |   |
| - | +        | H        | -             | $\vdash$ | +          | +             | ┿  | ╁            | ╁        | -   |          | 52 | $\vdash$      | _        | <u> </u>      | <u> </u> |          | <b>├</b>        | ┞         | <u> </u> | <u> </u>   | -   |                 | 102  |            |           | _          | _        | _        | L            | L        |          |          | ╛ |
| - | +        | -        | -             | ╁        | -          | -             | ╁  | ╁            | +        | ł   | <u> </u> | 53 |               |          | <u> </u>      | ├_       | <u> </u> | Ļ.              | <b>L</b>  | <u> </u> | L          | 4   | <u> </u>        | 103  |            |           | L.         |          | <u>L</u> | 乚            | L        |          |          | ╛ |
| - | +        |          | _             | ┼        | $\vdash$   | ╀╌            | ╁  | -            | ├        | 1   | -        | 54 |               |          | <u> </u>      | <u> </u> | <u> </u> | ļ               | <u> </u>  | _        | <u> </u>   | 1   | L               | 104  |            |           | L          |          |          |              | L        | L        |          |   |
| 4 | +        | <u> </u> | _             | -        | ┢          | ┝             | ╂  | +-           | ⊢        | ł   |          | 55 |               |          |               | L.       | _        | <u> </u>        | L.        | <u> </u> | L          | 1   | L               | 105  |            |           |            |          |          | <u>l</u> .   |          |          |          | ] |
| + | +        | Н        | _             |          | ├          | <u> </u>      | ╀  |              | ⊢        | -   |          | 56 |               |          | _             |          |          | <u> </u>        | <u> </u>  | _        | L.         | 1   |                 | 106  |            | _         |            |          |          |              |          |          |          | 1 |
| 4 | -1       | -        |               | ├        | ₩          | ┡             | -  | <del> </del> | ├-       |     |          | 57 | $\sqcup$      |          |               | _        | _        | L_              | L         | <u>L</u> | <u>_</u>   |     |                 | 107  |            |           |            |          |          |              |          | $\Box$   | Г        | 1 |
| 4 | -        | L-I      | ,—            |          | ┡          | ↓             | ╄  | 1            | ļ        |     |          | 58 |               |          |               | _        | _        | L               |           |          | L_         | ]   |                 | 108  | П          |           |            |          | Г        |              |          |          |          | 1 |
| 4 | -        | А        |               | -        | _          | <u> </u>      | 上  | ╄            | <u> </u> |     |          | 59 |               |          |               | _        |          |                 |           |          |            |     |                 | 109  |            |           |            |          |          |              |          |          |          | 1 |
| 4 |          |          |               | _        | <u> </u>   | _             | L.   | _            | <u> </u> | 1   |          | 60 |               |          |               |          |          |                 |           |          |            |     |                 | 110  |            |           |            |          |          |              |          |          | $\vdash$ | 1 |
| 4 | V        |          |               | Ļ        | <u> </u>   | ļ             | L  | _            | _        |     |          | 61 | $\sqcup$      |          |               |          |          |                 | L         |          |            | 7   |                 | 111  |            |           |            |          |          |              |          |          | -        | 1 |
| 4 | _        |          |               | <u> </u> | L.         | _             | _  | ļ            | L        |     |          | 62 |               |          |               |          |          |                 |           |          |            | 1   |                 | 112  | $\neg$     | _         |            |          |          |              |          | П        | $\vdash$ | 1 |
| 4 | $\dashv$ | _        |               | _        |            | L             | ļ  |              | L.       |     |          | 63 |               | _        |               |          |          |                 |           |          |            | 1   |                 | 113  |            |           |            |          | $\vdash$ |              | П        |          | _        | 1 |
| 4 | _        | _        |               |          | L          | _             | <u> </u>   |              |          |     |          | 64 |               | _]       |               |          |          |                 |           | ļ        |            | 1   |                 | 114  | 寸          | ٦         |            | _        | _        | $\vdash$     | П        | П        |          | 1 |
| 1 | _        |          |               |          |            |               | L  |              |          |     |          | 65 |               | $\neg$   |               |          |          |                 |           |          |            | 1   |                 | 115  | 十          | $\exists$ |            | _        | -        |              | $\neg$   |          |          | 1 |
| 1 | $\Box$   | $\Box$   |               | L        | <u>_</u>   |               | L  |              |          |     |          | 66 |               |          |               |          |          |                 |           |          |            | 1   |                 | 116  | 1          | 7         | $\vdash$   | $\neg$   |          |              |          | Н        | -        | 1 |
| 1 |          |          |               |          |            | <u>L</u> .    |  |              |          |     |          | 67 | $\neg$        |          |               |          |          |                 |           |          |            | ĺ   |                 | 117  | $\neg$     | $\dashv$  | $\dashv$   |          |          | Н            | $\dashv$ |          |          | 1 |
| 1 |          |          |               |          |            |               |  |              |          |     |          | 68 |               |          |               |          |          |                 | _         |          | _          | 1   |                 | 118  | $\dashv$   | $\dashv$  |            | $\neg$   |          | $\dashv$     | -        | $\dashv$ | _        | ł |
|   |          | [        |               |          |            |               |  |              |          |     |          | 69 | $\neg$        | $\neg$   |               |          |          |                 |           |          |            | 1   |                 | 119  | -+         | -         | -1         | $\dashv$ | _        | Н            | $\dashv$ |          |          | ┨ |
|   |          |          |               |          |            |               |  |              |          |     |          | 70 |               | 寸        |               |          |          |                 |           |          |            | 1   | -               | 120  | — <u>†</u> | ᅥ         | -          | -        |          | -            | -        |          | _        | 1 |
| T | П        |          |               |          |            |               |  |              |          |     |          | 71 | $\neg \vdash$ | $\neg$   | $\exists$     | _        |          |                 |           | -        | _          | ĺ   | $\vdash$        | 121  |            | $\dashv$  | $-\dagger$ |          | _        | -            | $\dashv$ | -        |          | ł |
| T |          |          |               |          |            |               |  |              |          |     |          | 72 |               | 7        | $\neg$        | $\dashv$ | _        |                 | -         |          | _          | ł   | $\vdash$        | 122  | +          | $\dashv$  | -+         |          |          | -            | $\dashv$ | $\dashv$ |          | ł |
| Ť |          |          |               |          |            | _             | _  | П            |          | ı   |          | 73 | $\dashv$      | +        | -             | -        | _        |                 |           |          |            | li  | $\vdash \dashv$ | 123  | +          | +         | $\dashv$   | -        |          | -            | -+       | -        |          | l |
| Ť | $\neg$   | $\neg$   |               |          |            |               |  |              |          |     | _        | 74 | 一             | -        | $\dashv$      | $\dashv$ |          |                 | $\vdash$  | -        |            |     | ├               | 124  | -+         | -{        |            | -+       |          |              | $\dashv$ | $\dashv$ | _        |   |
| Ť | $\neg$   |          |               |          |            |               |  |              | $\dashv$ |     |          | 75 | $\dashv$      | 十        | $\dashv$      | _        |          | $\dashv$        | -         |          | _          |     |                 | 124  | -+         | +         | -+         |          | _        | 4            | 4        | $\dashv$ |          |   |
| t | 7        |          |               |          |            |               |  |              | $\neg$   | ŀ   | -        | 76 | -             | +        | $\dashv$      |          | $\dashv$ |                 | $\dashv$  |          |            |     |                 | 125  | +          | 4         | -          |          | _        | _            | $\dashv$ | $\dashv$ | _        | ļ |
| t |          | $\dashv$ | ᅥ             |          |            | _             |  |              | $\dashv$ | - } |          | 77 | $\dashv$      | +        |               | $\dashv$ |          | $\dashv$        | -         |          |            |     |                 | 126  |            | 4         | -          | -        | _        | $\dashv$     | _        | _        | $\Box$   | ı |
| t | _        | $\dashv$ | $\dashv$      | $\dashv$ |            | _             | _  | H            | $\dashv$ | ŀ   |          | 78 | +             | +        | -             | -        |          | $\dashv$        |           |          |            |     |                 | 127  | +          | 4         | _          | _        |          | $\dashv$     |          | $\dashv$ |          | ļ |
| t | 寸        | +        |               | -        |            | -             | _  | $\vdash$     |          | }   |          | 79 | -+            | +        | -             | $\dashv$ | -        | $\dashv$        |           |          | _          |     |                 | 128  | _          | 4         | _          | _        |          |              | 4        |          |          |   |
| t | +        | $\dashv$ | -             |          | $\dashv$   |               |  | H            | ᅱ        | ŀ   |          | 80 | -             | $\dashv$ |               | -+       |          |                 | $\dashv$  |          |            |     |                 | 129  | 4          | _         |            | 4        | _        | _            | _        |          | _]       | 1 |
| t | $\dashv$ | +        | $\dashv$      | $\dashv$ | $\dashv$   | -             |  | $\vdash$     | $\dashv$ | - } | -+       | 81 |               | +        | -             | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$  | _        | _          |     |                 | 130  |            | 4         |            | _        | _        |              | _        | $\perp$  | $\perp$  |   |
| t | $\dashv$ | +        | +             | $\dashv$ |            |               |  | $\vdash$     | ᅱ        | ŀ   |          |    | $\dashv$      | -        | $\dashv$      | -        |          | _               | <b></b> ⊦ | -        |            |     |                 | 131  |            | 4         |            |          |          | _            |          | $\perp$  |          | ļ |
| t | +        | -        | $\dashv$      |          | +          |               |  | $\vdash$     | $\dashv$ | }   |          | 82 | -             | +        |               | -+       |          | _               | _         | -        |            |     |                 | 132  |            | _         | $\perp$    |          |          |              | $\perp$  |          |          | i |
| ╀ | -+       | +        | $\rightarrow$ |          |            |               | -  | $\vdash$     |          | -   |          | 83 |               | -        | -4            | -        | _        | _               | _         | _        |            | ļ   |                 | 133  |            | $\perp$   |            |          |          |              |          |          |          | i |
| ╀ | +        | -+-      | -             | $\dashv$ | -          | $\dashv$      |  |              | $\dashv$ | ļ   |          | 84 | _ _           | 4        | 4             | 4        |          |                 | _         | _        |            |     |                 | 134  |            |           |            |          | [        |              | Т        | T        |          |   |
| ŀ | +        | +        | -             | 4        |            |               |  | $\dashv$     | -        | ŀ   |          | 85 |               | 4        | _             | _        |          |                 | _         | $\perp$  | _          |     |                 | 135  |            |           |            |          |          | Ī            | Т        | T        |          |   |
| H | +        | +        | $\dashv$      |          | $\dashv$   |               |  | -            |          | -   |          | 86 | _ -           | 4        | _             | _        | _        | _               | _         | _        | _          | ļ   |                 | 136  |            |           |            |          |          | П            | T        | $\top$   | $\neg$   |   |
| ┞ | -        | +        | +             |          |            |               | $\dashv$   | -4           |          | ŀ   |          | 87 | _ _           | $\perp$  | $\dashv$      |          | _        |                 |           | _        | ╝          | l   |                 | 137  | T          | Ţ         |            |          |          | T            | Т        | $\top$   | ٦        |   |
| L | $\dashv$ | -        | -4            | -        | _          | $\dashv$      | _  | -            | _        | ļ   |          | 88 | $\perp$       | _        |               | $\perp$  |          |                 |           |          | $\Box$     | L   |                 | 138  | Т          | Т         |            |          |          | 1            |          | $\top$   | $\neg$   |   |
| H | 4        | -        | _             | 4        | 4          |               | _ [  |              | _        | Ĺ   |          | 89 | _ _           | $\perp$  |               |          |          | $\perp$         |           |          |            |     | T               | 139  | Ţ          | T         |            | T        |          |              | $\top$   | 寸        |          |   |
| L |          |          | -             | _        | -          | 4             | _  | _            | _        | L   |          | 90 |               | $\perp$  | _ _           |          |          |                 |           |          |            |     |                 | 140  | T          | $\top$    | $\top$     |          | 1        | 7            | $\top$   | $\top$   | ╛        |   |
| L | - -      | 4        | 4             | 4        | _          | _             | 4  | 4            | _        | L   |          | 91 |               |          |               |          |          |                 |           |          |            |     |                 | 141  | $\top$     | $\top$    | $\neg$     | 寸        | 一        | $\top$       | _        | 十        | $\neg$   |   |
| L | +        | _        | 4             | 4        | _          |               | _  | _            | _        | L   |          | 92 |               | $\perp$  |               |          |          |                 | T         | Т        | $\neg$     |     |                 | 142  | _          | †         | 7          | 7        | $\neg$   | _            | 十        | $^{+}$   | $\dashv$ |   |
| L | 4        | 4        | 4             | _        | $\dashv$   | _             |  |              |          | L   |          | 93 | $\perp$       | L        |               |          |          |                 | Т         |          | T          | Ī   |                 | 143  | $\top$     | 7         | 十          | _        | _        | $\top$       | +        | +        | $\dashv$ |   |
| L | - -      | 4        | 4             |          | _          | [             | _  | $\perp$      | ╝        | L   |          | 94 |               | Ι        | $\Box \Gamma$ |          | T        | $\top$          | 1         | 1        | $\neg$     | Ì   |                 | 144  | 7          | $\dagger$ | +          | 十        | $\dashv$ | _            | 十        | +        | $\dashv$ |   |
| L | $\perp$  | $\perp$  | $\perp$       | _        | _ _        |               | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |              |          | [   |          | 95 |               | T        | $\neg$        |          | T        | 丁               | $\neg$    | 寸        | $\neg$     | ı   |                 | 145  | +          | +         | _          |          | +        | +            | +        | +        | $\dashv$ |   |
|   | $\perp$  | _ _      | _             | $\perp$  |            | ightharpoonup |  |              |          |     |          | 96 | J             | T        | T             | $\top$   |          |                 | T         | $\top$   | $\neg$     | ı   | -               | 146  | +          | +         | +          |          | -        | +            | +        | +        | $\dashv$ |   |
|   |          |          | $\perp$       |          | $_{\perp}$ | J             | $oldsymbol{ol}}}}}}}}}}}}}}} $   | $\Box$       |          | Γ   |          | 97 | $\top$        | 1        | $\top$        | T        | す        | $\dashv$        | $\top$    | +        | 7          | r   | $\neg +$        | 147  | ╁          | +         | +          | +        | +        | -+-          | +        | +        | $\dashv$ |   |
| _ | $\perp$  |          |               |          |            |               | $\Box$   | T            |          | Γ   |          | 98 | $\top$        | T        | 1             | $\top$   | $\top$   | $\neg \uparrow$ | $\dashv$  | _        | $\neg$     | ŀ   |                 | 148  | +          | +         | +          | +        | +        | +            | -        | +        | $\dashv$ |   |
|   |          |          | $oxed{\Box}$  | $\Box$   | $\Box$     | _T            | $_{T}$   | T            |          | Γ   |          | 99 | 7             | T        | $\top$        | $\top$   | $\dashv$ | -†              | 1         | _        | $\exists$  | H   |                 | 149  | +          | +         |            | +        | +        | +-           | +        | +        | $\dashv$ |   |
|   |          | $\Box$   | $\Box \Gamma$ | T        | T          | T             | $\neg$   |              | $\neg$   | Г   |          | 00 |               | Ť        | $\top$        | $\top$   | 十        | $\dashv$        | $\dashv$  | +        | $\dashv$   | H   |                 | 150  | +          | +         | +          | +        | +        | +            | +        | +        | $\dashv$ |   |
|   |          |          |               |          |            | _             |  |              | _        | _   |          |    |               |          |               |          |          |                 |           | I        | - 1        | - 1 |                 | 100  | - 1        | - 1       | - 1        | - 1      | - 1      | - 1          | - 1      | - 1      | - 1      |   |